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# **PLAGUE-ERADICATIVE WORK.**

## **CALIFORNIA.**

The following report of plague-eradivative work in California for the week ended January 2, 1915, has been received from Passed Asst. Surg. Hurley, of the United States Public Health Service, in temporary charge of the work:

### *San Francisco, Cal.*

RAT PROOFING.		RAT PROOFING—continued.	
New buildings:		Old buildings—Continued.	
Inspections of work under construction.	266	Concrete floors installed (square feet, 29,568).....	29
Basements concreted (square feet, 157,849).....	88	Basements concreted (square feet, 23,150).....	20
Floors concreted (square feet, 447,156).....	37	Yards and passageways, etc., concreted (square feet, 45,474).....	58
Yards, passageways, etc. (square feet, 154,103).....	136	Total area concrete laid, square feet... 98,192	
Total area of concrete laid, square feet.. 759,108		Floors rat proofed with wire cloth (square feet, 6,750).....	7
Class A, B, and C (fireproof) buildings:		Buildings razed.....	17
Inspections made.....	208	New garbage cans stamped "Approved" ..	565
Roof and basement ventilators, etc., screened.....	1,190	Nuisances abated.....	280
Wire screening used, square feet.....	5,872	OPERATIONS ON THE WATERFRONT.	
Openings around pipes, etc., closed with cement.....	3,528	Vessels inspected for rat guards.....	23
Sidewalk lens lights replaced.....	3,200	Reinspections made on vessels.....	18
Old buildings:		New rat guards procured.....	8
Inspections made.....	198	Defective rat guards repaired.....	14
Wooden floors removed.....	35	Vessels on which cargo was inspected.....	2
Yards and passageways, planking removed.....	12	Amount of cargo inspected and description of same:	
Cubic feet new foundation walls installed.....	8,750		

	Condi- tion.	Rat evidence.		Condi- tion.	Rat evidence.
Steamers President and Admiral Farragut from Seattle:			Steamers President and Admiral Farragut from Seattle—Continued.		
120 boxes milk and household goods.	O. K....	None.	500 sacks flour.....	O. K....	None.
205 cases milk and salmon.	O. K....	None.	40 tubs cheese.....	O. K....	None.

Rats trapped on wharves and water front...	26	RATS COLLECTED AND EXAMINED FOR PLAGUE.			
Rats trapped on vessel .....	14	Collected.....	206		
Traps set on wharves and water front.....	181	Examined.....	130		
Traps set on vessel .....	88	Found infected.....	0		
Vessels trapped on.....	12	RATS IDENTIFIED.			
Poisons placed on water front (pieces).....	1,800	Mus norvegicus.....	78		
Poisons placed within Panama-Pacific International Exposition grounds.....	3,600	Mus musculus.....	35		
Bait used on water front and vessels, bacon (pounds).....	6	Mus alexandrinus.....	41		
Amount of bread used in poisoning water front (loaves).....	6	Mus rattus.....	52		
Pounds of poison used on water front .....	3				

### *Squirrels collected and examined for plague.*

Contra Costa County.....	19
San Benito County.....	16
Total.....	35
Found infected.....	0



Destination and number of railroad cars inspected  
for week ended Jan. 2:

Alabama.....	87
Arizona.....	1
Arkansas.....	14
California.....	49
South Carolina.....	3
Colorado.....	24
Connecticut.....	1
North Dakota.....	3
South Dakota.....	2
Florida.....	50
Georgia.....	44
Illinois.....	207
Indiana.....	17
Iowa.....	13
Kansas.....	15
Kentucky.....	15
Louisiana.....	481
Massachusetts.....	3
Michigan.....	5
Minnesota.....	14
Mississippi.....	198
Missouri.....	33
Montana.....	1
Nebraska.....	5
New Jersey.....	1
New York.....	21
Ohio.....	25
Oklahoma.....	12
Oregon.....	1
Pennsylvania.....	8
Tennessee.....	39
Texas.....	137

Utah.....	13
Virginia.....	1
West Virginia.....	4
Wisconsin.....	3
Canada.....	2

FIELD OPERATIONS.

Rats trapped.....	9,359
Premises fumigated.....	0
Premises disinfected.....	1
Premises inspected.....	11,151
Poisons placed.....	0
Notices served.....	1,094

BUILDINGS RAT PROOFED.

By elevation.....	29
By marginal concrete wall.....	69
By concrete floor and walls.....	193
By minor repairs.....	124
Square yards of concrete laid.....	7,254
Total buildings rat proofed.....	420
Buildings rat proofed to date.....	7,698
Number of abatements.....	531
Number of abatements to date.....	16,950

LABORATORY OPERATIONS.

Rodents examined.....	5,092
Mus norvegicus.....	1,961
Mus rattus.....	136
Mus alexandrinus.....	253
Mus musculus.....	4,708
Unclassified and putrid.....	2,571
Total rodents received at laboratory.....	9,481
Suspicious rats.....	43
Plague rats confirmed.....	6

*Rodent cases.*

Case No.	Address.	Captured.	Diagnosis confirmed.	Treatment of premises.
214	Stuyvesant Docks, Wharf 5.....	Dec. 29 <sup>1</sup>	Dec. 29	Summary destruction of rat harborage on roof of wharf. Intensive trapping. Disinfection.
215 216 217 218 219	Stuyvesant Docks, Wharf 6.....	Dec. 29 <sup>1</sup>	Dec. 29	See case 214.
	Stuyvesant Docks, Wharf 4.....	Jan. 2 <sup>1</sup>	Jan. 2	Do.

<sup>1</sup> Rodent found dead.

Total number of rodents captured to Jan. 2.....	215,231
Total number of rodents examined to Jan. 2.....	183,513

Rodent cases to Jan. 2, by species:

Mus rattus.....	15
Mus musculus.....	1
Mus alexandrinus.....	7
Mus norvegicus.....	196

Total rodent cases to Jan. 2.....	219
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The following report of plague-eradication work at New Orleans for the week ended January 9, 1915, has been received from Surg. Creel, of the United States Public Health Service, in temporary charge of the work:

## OUTGOING QUARANTINE.

Vessels fumigated with sulphur.....	32
Vessels fumigated with carbon monoxide.....	25
Vessels fumigated with hydrocyanic gas.....	1
Pounds of sulphur used.....	8,527
Coke consumed in carbon monoxide fumigation (pounds).....	33,900
Pounds of potassium cyanide used in hydrocyanic gas fumigation.....	120
Pounds of sodium carbonate used in hydrocyanic gas fumigation.....	120
Pounds of sulphuric acid used in hydrocyanic gas fumigation.....	200
Clean bills of health issued.....	40
Foul bills of health issued.....	15

## OVERLAND FREIGHT INSPECTION.

Cars inspected; found in good order; permitted to load.....	1,296
Cars ordered repaired before loading.....	1,174
Total cars inspected.....	2,470

## DESTINATION AND NUMBER OF RAILROAD CARS INSPECTED FOR WEEK ENDED JAN. 9.

Alabama.....	59
Arizona.....	2
Arkansas.....	11
California.....	26
Carolina, South.....	3
Colorado.....	1
Connecticut.....	1
Florida.....	9
Georgia.....	24
Illinois.....	280
Indiana.....	16
Iowa.....	10
Kansas.....	4
Kentucky.....	15
Louisiana.....	830
Maryland.....	2
Massachusetts.....	2
Michigan.....	4
Minnesota.....	10
Mississippi.....	20
Missouri.....	42
Nebraska.....	6

## DESTINATION AND NUMBER OF RAILROAD CARS INSPECTED FOR WEEK ENDED JAN. 9—continued.

New York.....	30
Ohio.....	53
Oklahoma.....	4
Pennsylvania.....	13
Rhode Island.....	1
Tennessee.....	62
Texas.....	134
Utah.....	1
Virginia.....	1
West Virginia.....	2
Washington.....	1
Wisconsin.....	3
District of Columbia.....	1

## FIELD OPERATIONS.

Rats trapped.....	8,585
Premises fumigated.....	0
Premises disinfected.....	0
Premises inspected.....	8,044
Poisons placed.....	0
Notices served.....	1,570

## BUILDINGS RAT PROOFED.

By elevation.....	62
By marginal concrete wall.....	102
By concrete floor and walls.....	238
By minor repairs.....	94
Square yards of concrete laid.....	10,845
Total buildings rat proofed.....	496
Total buildings rat proofed to date.....	7,504
Abatements.....	526
Abatements to date.....	17,476

## LABORATORY OPERATIONS.

Rodents examined.....	4,497
Mus norvegicus.....	1,800
Mus rattus.....	127
Mus alexandrinus.....	243
Mus musculus.....	4,900
Unclassified and putrid.....	1,799
Total rodents received at laboratory.....	9,004
Suspicious rats.....	42
Plague rats confirmed.....	3

## Rodent cases.

Case No.	Address.	Captured.	Diagnosis confirmed.	Treatment of premises.
220	Stuyvesant Docks, Wharf 5.....	Jan. 4 <sup>1</sup>	Jan. 4	Intensive trapping.
221	Stuyvesant Docks, Wharf 6.....	Jan. 7 <sup>1</sup>	Jan. 7	Do.
222	do.....	Jan. 6 <sup>1</sup>	Jan. 9	Do.

<sup>1</sup> Rodent found dead.

Total number of rodents captured to Jan. 9.....	224,016
Total number of rodents examined to Jan. 9.....	188,010

## Rodent cases to Jan. 9 by species:

Mus rattus.....	15
Mus musculus.....	2
Mus alexandrinus.....	8
Mus norvegicus.....	197

Total rodent cases to Jan. 9.....	222
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### Rat Harborage on Wharves.

Surg. Creel further states:

The report from Stuyvesant Docks may cause some concern. The infected rats that we are now getting there are from the various piles of freight on the wharves. After the destruction of the harborage on the roof most likely all of the rats that were able went to the lower level, as we found only dead rodents on the roof, all of them infected. Probably some escaped through holes in the fire wall and reached the lower floor. The ideal treatment of the place would consist in the removal of every bit of freight, package by package, and leaving the wharf bare and open, but considering the immense quantity of material on the mile of wharves it is a physical impossibility to do this. We have a gang of some 17 men moving freight and getting any rats that may be harboring therein. Practically all of the rats that have been taken from these wharves have been taken in this manner, and have been found dead in piles of lumber. By keeping this force of men constantly at work and thoroughly spraying the different wharves as they become vacated, we will probably be able to eliminate the infection before very long.

### WASHINGTON—SEATTLE.

The following reports of plague-eradivative work at Seattle have been received from Surg. Lloyd, of the United States Public Health Service, in charge of the work:

#### Week Ended Dec. 19, 1914.

RAT PROOFING.		WATER FRONT—continued.	
New buildings inspected.....	72	Sulphur used (pounds).....	200
Basements concreted, new buildings (square feet, 15,280).....	14	New rat guards installed.....	14
Floors concreted, new buildings (square feet, 24,460).....	11	Defective rat guards repaired.....	9
Yards, etc., concreted, new structures (square feet, 2,920).....	7	Vessels searched for dead rats.....	1
Sidewalks concreted (square feet).....	68,796	Dead rats recovered after fumigation.....	4
Total concrete, new structures (square feet)	111,456	Fumigation certificates issued.....	1
New buildings elevated.....	14	Canal Zone certificates issued.....	3
New premises rat proofed, concrete.....	62	Port sanitary statements issued.....	46
Old buildings inspected.....	6	LABORATORY AND RODENT OPERATIONS.	
Old buildings rat proofed.....	2	Dead rodents received.....	31
Basements concreted, old buildings.....	1	Rodents trapped and killed.....	343
Premises otherwise rat proofed, old build- ings.....	1	Total.....	374
Openings screened, old buildings.....	14	Rodents examined for plague infection.....	309
Wooden floors removed.....	2	Rodents proven plague infected.....	1
Wire screening used (square feet).....	2,750	Blocks poisoned.....	19
Buildings razed.....	3	Poison distributed (pounds).....	43
WATER FRONT.		CLASSIFICATION OF RODENTS.	
Vessels inspected and histories recorded....	6	Mus rattus.....	14
Vessels fumigated.....	1	Mus alexandrinus.....	53
		Mus norvegicus.....	259
		Mus musculus.....	48

The usual day and night patrol was maintained to enforce rat guarding and fending.

#### Rodents examined in Tacoma.

Mus norvegicus trapped.....	1
Mus norvegicus found dead.....	13
Mus rattus found dead.....	2
Total.....	16
Rodents examined for plague infection.....	16
Rodents proven plague infected.....	0

## Week Ended Dec. 26, 1914.

RAT PROOFING.		WATER FRONT.	
New buildings inspected.....	48	Vessels inspected and histories recorded....	5
Basements concreted, new buildings (square feet, 41,958).....	19	Vessels fumigated.....	0
Floors concreted, new buildings (square feet, 15,264).....	8	New rat guards installed.....	10
Yards, etc., concreted, new structures (square feet, 1,860).....	4	Defective rat guards repaired.....	14
Sidewalks concreted (square feet, 38,872).		Canal Zone certificates issued.....	2
Total concrete, new structures (square feet, 97,954).		Port sanitary statements issued.....	35
New buildings elevated.....	6	LABORATORY AND RODENT OPERATIONS.	
New premises rat proofed, concrete.....	27	Dead rodents received.....	23
Old buildings inspected.....	4	Rodents trapped and killed.....	213
Old buildings rat proofed.....	2	Total.....	236
Basements concreted, old buildings.....	1	Rodents examined for plague infection.....	194
Floors concreted, old buildings.....	2	Rodents proven plague infected.....	0
Premises otherwise rat proofed, old buildings.....	16	Blocks poisoned.....	14
Openings screened, old buildings.....	2	Poison distributed, pounds.....	40
Wooden floors removed.....	4,250	CLASSIFICATION OF RODENTS.	
Wire screening used, square feet.....	3	Mus rattus.....	7
Buildings razed.....		Mus alexandrinus.....	44
		Mus norvegicus.....	152
		Mus musculus.....	33

The usual day and night patrol was maintained to enforce rat guarding and fending.

*Rodents examined in Tacoma.*

Mus norvegicus found dead.....	14
Rodents examined for plague infection.....	14
Rodents proven plague infected.....	0

## HAWAII—HONOLULU.

The following report of plague-eradication work at Honolulu for the week ended December 26, 1914, has been received from Surg. Trotter, of the United States Public Health Service:

Total rats and mongoose taken.....	434	Average number of traps set daily.....	1,085
Rats trapped.....	430	Cost per rat destroyed (cents).....	19 $\frac{1}{2}$
Mongoose trapped.....	4	Last case rat plague, Aiea, 9 miles from Honolulu, Apr. 12, 1910.	
Examined microscopically.....	366	Last case human plague, Honolulu, July 12, 1910.	
Showing plague infection.....	0	Last case rat plague, Kalopa stable, Paauhau, Hawaii, Aug. 29, 1914.	
Classification of rats trapped:		Last case human plague, Paauhau Landing, Hawaii, Aug. 17, 1914.	
Mus alexandrinus.....	169		
Mus musculus.....	180		
Mus norvegicus.....	49		
Mus rattus.....	32		